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# Involvement in Sport

Australia

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Statistics

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## NOTES

### ABOUT THIS PUBLICATION

This publication presents results from the supplementary survey of the March 1997 Monthly Population Survey. It contains estimates of the number of people aged 15 years and over who were involved in sport during the 12 months ended March 1997.

Involvement in sport was defined to include both playing and non-playing involvements in paid and unpaid capacities. Spectator involvement in sport was excluded.

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### SYMBOLS AND OTHER USAGES

RSE	relative standard error
SE	standard error
*	subject to sampling variability too high for most practical purposes (i.e. relative standard error greater than 25%).
**	subject to sampling variability too high for practical purposes (i.e. relative standard error greater than 50%).
..	not applicable

.....

### ROUNDING

Where figures have been rounded, discrepancies may occur between sums of the component items and totals. Published percentages are calculated prior to rounding of the figures and therefore some discrepancy may occur between these percentages and those that could be calculated from the rounded figures.

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### INQUIRIES

For information about other ABS statistics and services, please refer to the back of this publication.

For further information about these statistics and the availability of related unpublished statistics, contact Glenn Hamlyn on Adelaide (08) 8237 7402.

W. McLennan  
Australian Statistician

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## MAIN FEATURES

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### INVOLVEMENT IN SPORT—12 MONTHS ENDED MARCH 1997

#### TOTAL INVOLVEMENT

- There were 4.7 million people (32.4%) of the Australian population aged 15 years and over, involved in sport.
- There were 6.6 million playing and non-playing involvements in sport, an average of 1.4 involvements for each of the 4.7 million participants.

#### PLAYING STATUS

- There were 4.1 million people involved in sport as a player at some time during the year, while just over 550,000 people were involved solely in a non-playing capacity.
- There were 1.1 million people involved in sport as a player with a non-playing involvement.

#### PAID INVOLVEMENTS

- There were 328,500 people (7.0%) of the total number of people involved in sport, who received some payment for their involvement.

#### SEX

- Males had a significantly higher rate of involvement in sport than females. Participation rates were 39.8% for males and 25.2% for females. Most of the difference in the participation rates between males and females was attributable to players. For non-players, males had only a slightly higher participation rate.

#### AGE GROUP

- The 15–24 year age group had the highest player participation rate with just under 50% being involved. The player participation rate declined with each subsequent age group, with 17.0% of persons aged 65 and over involved in sport as a player.
- For non-players, the 35–44 year age group had the highest participation rate, with 17.5% involved.

#### BIRTHPLACE

- The participation rate for Australian born persons was 36.3%, while that for persons born overseas was 21.6%.

#### COMPARISON WITH 1993

- The number of people involved in sport has increased from 4.5 million in 1993 to 4.7 million in 1997. However, the participation rate fell slightly from 33.1% to 32.4%.
- From 1993 to 1997, the number of people involved in sport as a player increased by 150,000 persons. However, the participation rate for all players decreased by 0.6 percentage points. The participation rate for non-players increased by 1.1 percentage points, as did the participation rate for players with non-playing involvements.
- In 1997, 7.0% of the total number of people involved in sport received payment, compared with only 4.7% in 1993. This is mainly attributable to an increase in the number of players receiving payment. In 1997, 142,600 people were paid for playing involvements, compared with 57,000 people in 1993.

## SUMMARY OF FINDINGS

### COMPARISON WITH 1993

There were 4.7 million people aged 15 and over (32.4%) involved in sport either as players, non-players, or both during the 12 months ended March 1997. This is 165,000 more people than were involved in sport in 1993. However, while the number involved has increased, the participation rate has fallen marginally by 0.7 percentage points.

The number of people paid for their involvement in sport increased from 213,300 in 1993 (4.7% of persons involved) to 328,500 in 1997 (7% of persons involved).

	1993.....		1997.....	
	Number	Participation rate	Number	Participation rate
	'000	%	'000	%
<b>Involvement</b>				
Paid	213.3	1.6	328.5	2.3
Unpaid	4 291.6	31.6	4 341.3	30.1
<b>Sex</b>				
Males	2 660.2	39.4	2 824.3	39.8
Females	1 844.7	26.9	1 845.5	25.2
<b>Age group (years)</b>				
15-24	1 340.2	49.2	1 334.2	50.5
25-34	1 096.7	39.0	1 046.9	36.9
35-44	935.5	35.1	936.0	33.4
45-54	528.6	25.7	613.3	26.0
55-64	294.5	20.2	342.9	22.0
65 and over	309.4	16.5	396.6	17.8
<b>Total persons</b>	<b>4 504.9</b>	<b>33.1</b>	<b>4 669.8</b>	<b>32.4</b>

### CHARACTERISTICS OF PERSONS INVOLVED

#### Sex

Overall, 39.8% of males (2.8 million) and 25.2% of females (1.8 million) were involved in sport in 1997. Compared with 1993, the participation rate of males has increased by 0.4 percentage points, while the participation rate for females has decreased by 1.7 percentage points. Participation rates for males were higher than those for females in all States and Territories (see table 1).

There were 2.5 million males and 1.6 million females who were involved in sport as a player. The participation rate for males was 35.7%, and 21.5% for females. For people involved in a non-playing capacity only, there were a similar number of females participating (266,700 persons) as there were males (287,900 persons).

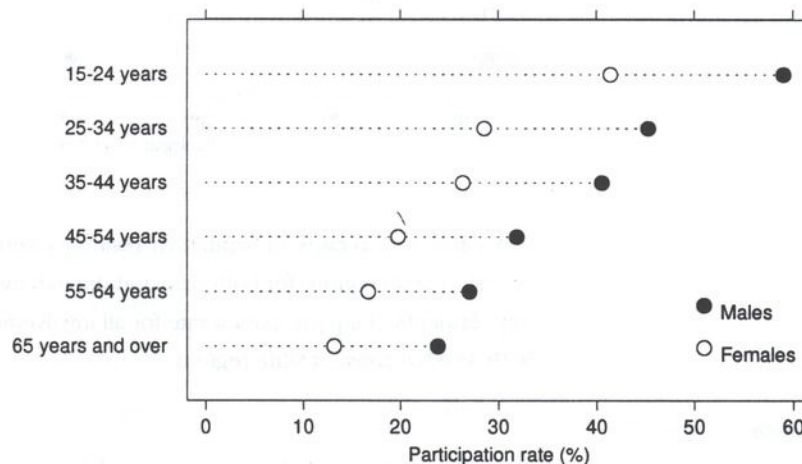
## SUMMARY OF FINDINGS *continued*

### CHARACTERISTICS OF PERSONS INVOLVED *continued*

#### Age

The youngest age group (15–24 year olds) had the highest participation rate for both paid and unpaid involvement in sport (see table 2). Overall, 1.3 million, or 50.5% of people in this age group were involved in sport, up from 49.2% in 1993. Participation rates declined in each subsequent age group with 17.8% of persons aged 65 and over (396,600 persons) involved in sport.

#### PARTICIPATION RATES, By Age and Sex



Non-players have different age-specific participation rates than players (see table 3). The participation rate for non-playing involvement was highest in the 35–44 year age group, with 17.5% participating (490,900 persons). This age group also had the highest participation rate for non-playing involvements in 1993 with 16.9% participating.

#### Employment status

Overall, 3.3 million employed persons (38.4%) were involved in sport at some time during the 12 months ended March 1997 (see tables 2 and 3). Those employed full-time had a slightly higher participation rate than those employed part-time (39.1% and 36.5% respectively).

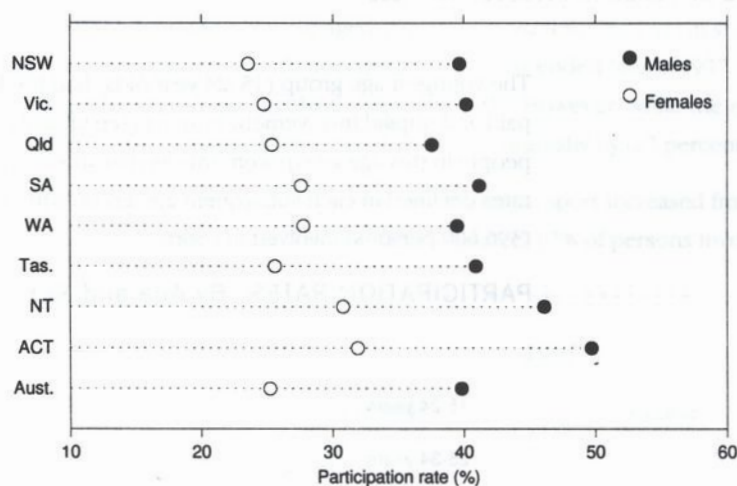
For people who were unemployed or not in the labour force for the week prior to the survey, the participation rates were 32.5% and 22.3% respectively.

#### Residence

The highest participation rate for involvement in sport was for people resident in the Australian Capital Territory (40.6% or 95,400 persons), closely followed by those living in the Northern Territory (38.5% or 39,600 persons) (see table 1). These two Territories also had the highest participation rates in 1993. The lowest participation rates were observed in Queensland and New South Wales, with rates of 31.4% and 31.5% respectively.



## PARTICIPATION RATES, By State and Sex

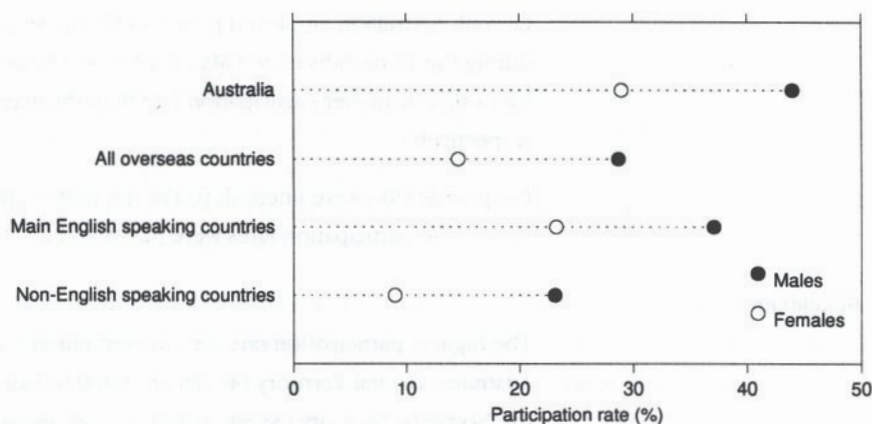


The participation rates for capital city residents were lower than those for people living in rest of State regions for both paid and unpaid involvement (see table 2). For capital city residents, the participation rate for all involvement in sport was 30.3%, compared with 35.6% for rest of State regions.

### Birthplace

Australian born persons had a higher participation rate in sport (36.3%) than those born overseas (21.6%) (see tables 2 and 3). For people born overseas, migrants from the main English speaking countries had a participation rate almost double that of people born in non-English speaking countries (30.1% compared with 16.0%). For males born overseas, the participation rate for all involvement in sport was 28.7%, compared with 14.6% for females born overseas.

## PARTICIPATION RATES, By Birthplace and Sex





## SUMMARY OF FINDINGS *continued*

### TYPE OF INVOLVEMENT

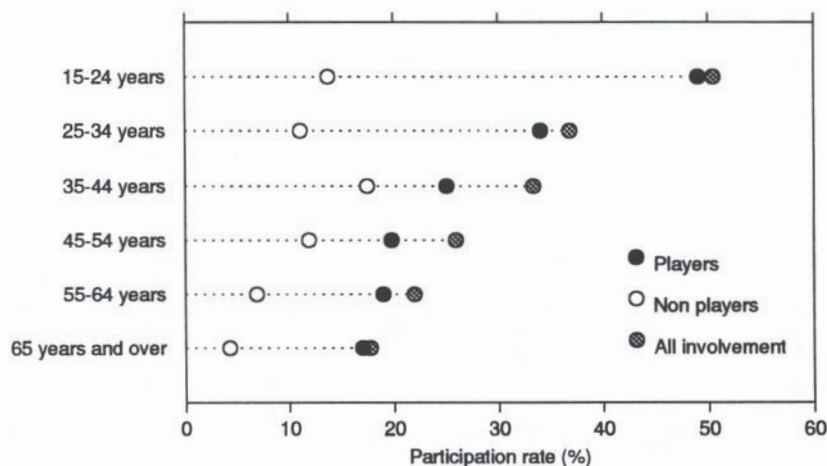
#### Player

There were 4.1 million persons aged 15 and over (28.5%), who played sport at some time in the 12 months ended March 1997 (see table 3). Nearly 3.5% of them (142,600 persons) received payment for their playing involvement (see table 4), compared with 1.4% (57,000 persons) in 1993.

#### Non-player

A total of 1.7 million persons (a participation rate of 11.5%) were involved in sport in a non-playing capacity during the 12 months ended March 1997. Of those, 33.5% (554,700 people) had no playing involvement at all. For non-players, there was little difference in the participation rate of males and females.

### PARTICIPATION RATES, By Age and Playing Status(a)



(a) Players with non-playing involvement are included in both the players and non-players categories.

There were four types of non-playing involvement identified (see table 4). Persons could have been involved in more than one type of involvement.

#### Coach/instructor/teacher

There were 628,300 people, a participation rate of 4.4%, involved in the teaching of sport. More than 100,000 of them (16.0% of those teaching) received payment. In 1993, 18.4% of people involved in the teaching of sport received some payment.

#### Referee/umpire

Of the 456,800 people who refereed or umpired sport (a participation rate of 3.2%), 75,200 (16.5%) of all umpires and referees received payment. In 1993, 14.8% of all umpires and referees received payment.

## SUMMARY OF FINDINGS *continued*

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### TYPE OF INVOLVEMENT *continued*

#### Committee member

There were 605,800 people who were a member of a committee involved in sport during the 12 months ending March 1997. Of those, only 2.2% (13,300 people) received some payment for their involvement.

#### Administrator

Of the 266,500 people who were an administrator involved in sport (a participation rate of 1.8%), 28,500 (10.7%) of all administrators received payment.

#### Other involvement

There were 569,900 people who had involvement in other non-playing capacities such as scoring, timekeeping and medical support. Only 28,100 people (4.9%) received payment for these roles.

## PERSONS INVOLVED IN SPORT, Paid and Unpaid(a)

State and Territory	Paid involvement only '000	Paid and unpaid involvement '000	Unpaid involvement only '000	All sport involvement '000	No involvement '000	Total '000	Participation rate %
MALES							
New South Wales	41.7	25.2	890.3	957.2	1 452.9	2 410.2	39.7
Victoria	27.0	22.5	662.8	712.2	1 060.6	1 772.9	40.2
Queensland	22.8	15.4	450.9	489.1	811.1	1 300.2	37.6
South Australia	14.1	10.4	214.0	238.6	340.0	578.6	41.2
Western Australia	8.5	8.4	254.9	271.7	417.0	688.8	39.5
Tasmania	2.8	2.2	69.3	74.2	107.4	181.6	40.9
Northern Territory	*1.6	*1.2	21.2	24.0	28.0	51.9	46.1
Australian Capital Territory	3.7	2.7	50.9	57.2	58.0	115.3	49.7
<b>Australia</b>	<b>122.0</b>	<b>88.1</b>	<b>2 614.2</b>	<b>2 824.3</b>	<b>4 275.1</b>	<b>7 099.4</b>	<b>39.8</b>
FEMALES							
New South Wales	15.8	18.6	554.8	589.2	1 911.6	2 500.8	23.6
Victoria	16.2	17.3	425.5	459.0	1 392.2	1 851.1	24.8
Queensland	11.5	9.2	316.4	337.1	992.1	1 329.2	25.4
South Australia	5.6	6.8	152.8	165.2	433.7	598.9	27.6
Western Australia	5.2	5.7	182.3	193.3	503.0	696.3	27.8
Tasmania	*1.2	*0.6	46.2	48.0	139.8	187.8	25.6
Northern Territory	**0.5	*0.7	14.4	15.6	35.2	50.8	30.8
Australian Capital Territory	2.4	*1.2	34.6	38.1	81.3	119.4	31.9
<b>Australia</b>	<b>58.4</b>	<b>60.1</b>	<b>1 727.1</b>	<b>1 845.5</b>	<b>5 488.9</b>	<b>7 334.4</b>	<b>25.2</b>
PERSONS							
New South Wales	57.5	43.8	1 445.1	1 546.4	3 364.5	4 910.9	31.5
Victoria	43.1	39.8	1 088.3	1 171.2	2 452.8	3 624.0	32.3
Queensland	34.3	24.6	767.3	826.2	1 803.2	2 629.4	31.4
South Australia	19.8	17.2	366.9	403.8	773.7	1 177.5	34.3
Western Australia	13.7	14.1	437.2	465.0	920.1	1 385.1	33.6
Tasmania	4.0	2.8	115.4	122.3	247.2	369.4	33.1
Northern Territory	2.1	1.9	35.6	39.6	63.1	102.7	38.5
Australian Capital Territory	6.0	3.9	85.4	95.4	139.4	234.7	40.6
<b>Australia</b>	<b>180.4</b>	<b>148.1</b>	<b>4 341.3</b>	<b>4 669.8</b>	<b>9 763.9</b>	<b>14 433.8</b>	<b>32.4</b>

(a) Persons aged 15 years and over.

## CHARACTERISTICS OF PERSONS INVOLVED IN SPORT, Paid and Unpaid

Characteristics	SOME PAID INVOLVEMENT(a) ..		NO PAID INVOLVEMENT.....		TOTAL INVOLVEMENT.....	
	Number	Participation rate	Number	Participation rate	Number	Participation rate
	'000	%	'000	%	'000	%
<b>Sex</b>						
Males	210.1	3.0	2 614.2	36.8	2 824.3	39.8
Females	118.4	1.6	1 727.1	23.5	1 845.5	25.2
<b>Age group (years)</b>						
15-24	109.4	4.1	1 224.8	46.3	1 334.2	50.5
25-34	87.1	3.1	959.8	33.8	1 046.9	36.9
35-44	65.3	2.3	870.8	31.1	936.0	33.4
45-54	38.8	1.6	574.5	24.3	613.3	26.0
55-64	16.2	1.0	326.7	20.9	342.9	22.0
65 and over	11.8	0.5	384.8	17.3	396.6	17.8
<b>Employment status</b>						
Employed full-time	195.7	3.1	2 262.8	36.0	2 458.4	39.1
Employed part-time	68.4	3.1	729.8	33.4	798.2	36.5
Total employed	264.1	3.1	2 992.5	35.3	3 256.6	38.4
Unemployed	19.6	2.3	252.2	30.2	271.7	32.5
Not in the labour force	44.9	0.9	1 096.6	21.4	1 141.5	22.3
<b>Region</b>						
Capital cities	196.1	2.2	2 522.8	28.2	2 718.8	30.3
Rest of State	132.5	2.4	1 818.5	33.2	1 951.0	35.6
<b>Birthplace</b>						
Australia	274.6	2.6	3 551.9	33.7	3 826.5	36.3
Overseas	53.9	1.4	789.4	20.2	843.3	21.6
Main English speaking countries	29.5	1.9	436.4	28.2	465.9	30.1
Non-English speaking countries	24.5	1.0	353.0	15.0	377.4	16.0
<b>Total persons</b>	<b>328.5</b>	<b>2.3</b>	<b>4 341.3</b>	<b>30.1</b>	<b>4 669.8</b>	<b>32.4</b>

(a) Combines those with paid only and paid and unpaid involvement.



## CHARACTERISTICS OF PERSONS INVOLVED, Playing Status

Characteristics	Players only (A)	Players with non-playing involvement (B)	Non-players only (C)	All players (A + B)	All non-players (B + C)	Total involvement in sport (A + B + C)
MALES ('000)						
<b>Age group (years)</b>						
15-24	598.1	181.0	16.9	779.1	197.9	796.0
25-34	454.6	147.1	37.3	601.7	184.4	639.0
35-44	294.4	160.8	108.2	455.2	269.0	563.3
45-54	210.6	90.8	80.4	301.4	171.2	381.8
55-64	148.0	34.9	30.5	182.9	65.4	213.4
65 and over	171.1	44.9	14.7	216.1	59.6	230.8
<b>Employment status</b>						
Employed full-time	1 151.4	459.6	219.8	1 611.0	679.4	1 830.8
Employed part-time	197.8	71.6	19.9	269.4	91.5	289.3
Total employed	1 349.2	531.2	239.7	1 880.4	770.9	2 120.1
Unemployed	125.2	30.1	16.5	155.4	46.7	171.9
Not in the labour force	402.4	98.3	31.7	500.6	130.0	532.3
<b>Region</b>						
Capital cities	1 164.7	347.3	168.9	1 512.0	516.2	1 680.9
Rest of State	712.1	312.3	119.0	1 024.4	431.3	1 143.4
<b>Birthplace</b>						
Australia	1 489.1	551.0	224.5	2 040.2	775.6	2 264.7
Overseas	387.6	108.6	63.4	496.2	172.0	559.6
Main English speaking countries	188.8	68.9	29.9	257.7	98.8	287.7
Non-English speaking countries	198.8	39.7	33.5	238.5	73.2	272.0
Total males	1 876.8	659.6	287.9	2 536.4	947.6	2 824.3
PARTICIPATION RATE (%)						
<b>Age group (years)</b>						
15-24	44.4	13.4	1.3	57.9	14.7	59.1
25-34	32.2	10.4	2.6	42.7	13.1	45.3
35-44	21.2	11.6	7.8	32.8	19.4	40.6
45-54	17.6	7.6	6.7	25.2	14.3	31.9
55-64	18.8	4.4	3.9	23.2	8.3	27.1
65 and over	17.6	4.6	1.5	22.2	6.1	23.8
<b>Employment status</b>						
Employed full-time	27.2	10.8	5.2	38.0	16.0	43.2
Employed part-time	34.3	12.4	3.5	46.7	15.9	50.2
Total employed	28.0	11.0	5.0	39.0	16.0	44.0
Unemployed	26.3	6.3	3.5	32.6	9.8	36.1
Not in the labour force	22.3	5.4	1.8	27.7	7.2	29.5
<b>Region</b>						
Capital cities	26.6	7.9	3.9	34.5	11.8	38.4
Rest of State	26.2	11.5	4.4	37.6	15.8	42.0
<b>Birthplace</b>						
Australia	28.9	10.7	4.4	39.6	15.1	44.0
Overseas	19.8	5.6	3.2	25.4	8.8	28.7
Main English speaking countries	24.3	8.9	3.9	33.2	12.7	37.1
Non-English speaking countries	16.9	3.4	2.8	20.3	6.2	23.1
Total males	26.4	9.3	4.1	35.7	13.3	39.8

CHARACTERISTICS OF PERSONS INVOLVED, Playing Status *continued*

Characteristics	Players only (A)	Players with non-playing involvement (B)	Non-players only (C)	All players (A + B)	All non-players (B + C)	Total involvement in sport (A + B + C)
FEMALES ('000)						
<b>Age group (years)</b>						
15-24	370.2	149.5	18.5	519.7	168.0	538.2
25-34	276.2	91.1	40.5	367.3	131.6	407.8
35-44	150.7	97.3	124.6	248.1	221.9	372.7
45-54	121.8	45.2	64.5	167.0	109.7	231.5
55-64	87.9	26.2	15.3	114.2	41.6	129.5
65 and over	130.3	32.2	*3.3	162.5	35.5	165.8
<b>Employment status</b>						
Employed full-time	386.4	136.5	104.8	522.9	241.3	627.6
Employed part-time	267.7	148.5	92.6	416.3	241.2	508.9
Total employed	654.1	285.1	197.4	939.2	482.4	1 136.5
Unemployed	67.3	22.1	10.4	89.4	32.5	99.8
Not in the labour force	415.7	134.5	58.9	550.2	193.4	609.1
<b>Region</b>						
Capital cities	678.4	210.0	149.5	888.4	359.5	1 037.9
Rest of State	458.8	231.6	117.2	690.4	348.8	807.6
<b>Birthplace</b>						
Australia	944.4	394.4	222.9	1 338.8	617.3	1 561.8
Overseas	192.7	47.2	43.8	239.9	91.0	283.7
Main English speaking countries	112.2	35.0	31.0	147.2	66.0	178.2
Non-English speaking countries	80.5	12.2	12.8	92.7	25.0	105.5
Total females	1 137.1	441.6	266.7	1 578.8	708.3	1 845.5
FEMALE PARTICIPATION RATE (%)						
<b>Age group (years)</b>						
15-24	28.5	11.5	1.4	40.0	12.9	41.5
25-34	19.3	6.4	2.8	25.7	9.2	28.6
35-44	10.7	6.9	8.8	17.6	15.7	26.4
45-54	10.4	3.9	5.5	14.3	9.4	19.8
55-64	11.4	3.4	2.0	14.8	5.4	16.7
65 and over	10.4	2.6	*0.3	12.9	2.8	13.2
<b>Employment status</b>						
Employed full-time	18.9	6.7	5.1	25.6	11.8	30.7
Employed part-time	16.6	9.2	5.8	25.9	15.0	31.6
Total employed	17.9	7.8	5.4	25.7	13.2	31.1
Unemployed	18.7	6.1	2.9	24.9	9.1	27.8
Not in the labour force	12.5	4.1	1.8	16.6	5.8	18.3
<b>Region</b>						
Capital cities	14.8	4.6	3.3	19.4	7.8	22.6
Rest of State	16.7	8.4	4.3	25.1	12.7	29.4
<b>Birthplace</b>						
Australia	17.5	7.3	4.1	24.9	11.5	29.0
Overseas	9.9	2.4	2.2	12.3	4.7	14.6
Main English speaking countries	14.6	4.6	4.0	19.1	8.6	23.2
Non-English speaking countries	6.8	1.0	1.1	7.9	2.1	9.0
Total females	15.5	6.0	3.6	21.5	9.7	25.2

Characteristics	Players only (A)	Players with non-playing involvement (B)	Non-players only (C)	All players (A + B)	All non-players (B + C)	Total involvement in sport (A + B + C)
PERSONS ('000)						
<b>Age group (years)</b>						
15-24	968.3	330.6	35.3	1 298.8	365.9	1 334.2
25-34	730.8	238.3	77.8	969.1	316.0	1 046.9
35-44	445.1	258.1	232.8	703.2	490.9	936.0
45-54	332.4	136.0	144.9	468.3	280.9	613.3
55-64	235.9	61.1	45.8	297.1	107.0	342.9
65 and over	301.4	77.1	18.0	378.6	95.2	396.6
<b>Employment status</b>						
Employed full-time	1 537.7	596.2	324.6	2 133.9	920.7	2 458.4
Employed part-time	465.6	220.1	112.5	685.7	332.6	798.2
Total employed	2 003.3	816.3	437.1	2 819.6	1 253.4	3 256.6
Unemployed	192.6	52.2	27.0	244.8	79.2	271.7
Not in the labour force	818.1	232.8	90.6	1 050.8	323.4	1 141.5
<b>Region</b>						
Capital cities	1 843.1	557.3	318.4	2 400.4	875.7	2 718.8
Rest of State	1 170.9	543.9	236.3	1 714.8	780.2	1 951.0
<b>Birthplace</b>						
Australia	2 433.6	945.5	447.5	3 379.0	1 392.9	3 826.5
Overseas	580.4	155.8	107.2	736.1	263.0	843.3
Main English speaking countries	301.0	103.9	60.9	405.0	164.8	465.9
Non-English speaking countries	279.3	51.8	46.3	331.2	98.1	377.4
<b>Total persons</b>	<b>3 013.9</b>	<b>1 101.2</b>	<b>554.7</b>	<b>4 115.2</b>	<b>1 655.9</b>	<b>4 669.8</b>
TOTAL PARTICIPATION RATE (%)						
<b>Age group (years)</b>						
15-24	36.6	12.5	1.3	49.1	13.8	50.5
25-34	25.7	8.4	2.7	34.1	11.1	36.9
35-44	15.9	9.2	8.3	25.1	17.5	33.4
45-54	14.1	5.8	6.1	19.8	11.9	26.0
55-64	15.1	3.9	2.9	19.0	6.9	22.0
65 and over	13.5	3.5	0.8	17.0	4.3	17.8
<b>Employment status</b>						
Employed full-time	24.5	9.5	5.2	34.0	14.6	39.1
Employed part-time	21.3	10.1	5.1	31.4	15.2	36.5
Total employed	23.6	9.6	5.2	33.3	14.8	38.4
Unemployed	23.0	6.2	3.2	29.3	9.5	32.5
Not in the labour force	16.0	4.5	1.8	20.5	6.3	22.3
<b>Region</b>						
Capital cities	20.6	6.2	3.6	26.8	9.8	30.3
Rest of State	21.4	9.9	4.3	31.3	14.3	35.6
<b>Birthplace</b>						
Australia	23.1	9.0	4.2	32.1	13.2	36.3
Overseas	14.9	4.0	2.7	18.9	6.7	21.6
Main English speaking countries	19.5	6.7	3.9	26.2	10.7	30.1
Non-English speaking countries	11.9	2.2	2.0	14.1	4.2	16.0
<b>Total persons</b>	<b>20.9</b>	<b>7.6</b>	<b>3.8</b>	<b>28.5</b>	<b>11.5</b>	<b>32.4</b>



## TYPE OF INVOLVEMENT, Paid and Unpaid(a)

Type of involvement	Paid involvements '000	Unpaid involvements '000	Total involvements '000	Participation rate %
NEW SOUTH WALES				
<b>Playing</b>	43.4	1 341.7	1 385.1	28.2
<b>Non-playing</b>				
Coach/instructor/teacher	34.8	159.3	194.0	4.0
Referee/umpire	23.1	111.6	134.7	2.7
Committee member	*3.7	158.4	162.1	3.3
Administrator	*7.4	68.6	76.1	1.5
Other involvement	9.5	167.1	176.5	3.6
<b>Total non-playing</b>	78.5	665.0	743.4	..
<b>Total</b>	121.9	2 006.7	2 128.5	..
VICTORIA				
<b>Playing</b>	37.3	994.7	1 032.0	28.5
<b>Non-playing</b>				
Coach/instructor/teacher	25.7	129.3	155.0	4.3
Referee/umpire	20.1	84.6	104.8	2.9
Committee member	*2.5	165.1	167.6	4.6
Administrator	*5.7	67.8	73.5	2.0
Other involvement	*5.8	132.3	138.1	3.8
<b>Total non-playing</b>	59.8	579.1	639.0	..
<b>Total</b>	97.1	1 573.8	1 671.0	..
QUEENSLAND				
<b>Playing</b>	27.2	700.7	727.9	27.7
<b>Non-playing</b>				
Coach/instructor/teacher	14.7	95.0	109.7	4.2
Referee/umpire	9.9	74.3	84.2	3.2
Committee member	*3.7	93.7	97.4	3.7
Administrator	6.8	37.8	44.6	1.7
Other involvement	5.9	92.0	97.9	3.7
<b>Total non-playing</b>	41.0	392.8	433.8	..
<b>Total</b>	68.2	1 093.5	1 161.7	..

(a) Persons aged 15 years and over.



TYPE OF INVOLVEMENT, Paid and Unpaid(a) *continued*

Type of involvement	Paid involvements '000	Unpaid involvements '000	Total involvements '000	Participation rate %
SOUTH AUSTRALIA				
<b>Playing</b>	16.7	322.4	339.1	28.8
<b>Non-playing</b>				
Coach/instructor/teacher	8.7	55.4	64.0	5.4
Referee/umpire	10.2	41.3	51.6	4.4
Committee member	*1.8	72.5	74.4	6.3
Administrator	4.2	29.5	33.7	2.9
Other involvement	*2.3	63.9	66.2	5.6
Total non-playing	27.2	262.6	289.9	..
<b>Total</b>	43.9	585.0	629.0	..
WESTERN AUSTRALIA				
<b>Playing</b>	9.0	397.6	406.6	29.4
<b>Non-playing</b>				
Coach/instructor/teacher	10.9	56.1	67.1	4.8
Referee/umpire	7.3	44.1	51.4	3.7
Committee member	**0.6	66.2	66.8	4.8
Administrator	*2.6	18.7	21.3	1.5
Other involvement	*3.3	55.1	58.5	4.2
Total non-playing	24.7	240.2	265.1	..
<b>Total</b>	33.7	637.8	671.7	..
TASMANIA				
<b>Playing</b>	2.1	103.3	105.4	28.5
<b>Non-playing</b>				
Coach/instructor/teacher	2.4	16.3	18.7	5.1
Referee/umpire	*1.1	15.0	16.1	4.4
Committee member	**0.5	22.1	22.6	6.1
Administrator	*0.6	7.2	7.8	2.1
Other involvement	*0.7	15.4	16.1	4.4
Total non-playing	5.3	76.0	81.3	..
<b>Total</b>	7.4	179.3	186.7	..

(a) Persons aged 15 years and over.

TYPE OF INVOLVEMENT, Paid and Unpaid(a) *continued*

Type of involvement	Paid involvements '000	Unpaid involvements '000	Total involvements '000	Participation rate %
<b>NORTHERN TERRITORY</b>				
<b>Playing</b>	*1.7	34.1	35.8	34.8
<b>Non-playing</b>				
Coach/instructor/teacher	**0.4	4.0	4.4	4.3
Referee/umpire	*1.3	2.3	3.6	3.5
Committee member	**	7.3	7.3	7.1
Administrator	**0.2	*1.7	1.9	1.8
Other involvement	**0.5	5.4	5.8	5.7
Total non-playing	2.4	20.7	23.0	..
<b>Total</b>	<b>4.1</b>	<b>54.8</b>	<b>58.8</b>	<b>..</b>
<b>AUSTRALIAN CAPITAL TERRITORY</b>				
<b>Playing</b>	5.2	78.1	83.3	35.5
<b>Non-playing</b>				
Coach/instructor/teacher	3.0	12.4	15.3	6.5
Referee/umpire	2.1	8.3	10.5	4.5
Committee member	**0.4	7.3	7.7	3.3
Administrator	*1.0	6.5	7.6	3.2
Other involvement	**0.2	10.5	10.7	4.6
Total non-playing	6.7	45.0	51.8	..
<b>Total</b>	<b>11.9</b>	<b>123.1</b>	<b>135.1</b>	<b>..</b>
<b>AUSTRALIA</b>				
<b>Playing</b>	142.6	3 972.6	4 115.2	28.5
<b>Non-playing</b>				
Coach/instructor/teacher	100.5	527.8	628.3	4.4
Referee/umpire	75.2	381.6	456.8	3.2
Committee member	13.3	592.5	605.8	4.2
Administrator	28.5	237.9	266.5	1.8
Other involvement	28.1	541.8	569.9	3.9
Total non-playing	245.6	2 281.6	2 527.3	..
<b>Total</b>	<b>388.2</b>	<b>6 254.2</b>	<b>6 642.5</b>	<b>..</b>

(a) Persons aged 15 years and over.

## EXPLANATORY NOTES

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### INTRODUCTION

**1** This publication presents results from the supplementary survey of the March 1997 Monthly Population Survey. It contains estimates of the number of people who were involved in sport by type of involvement. Details on the characteristics of people involved and the nature of involvement (e.g. whether paid or unpaid, playing or non-playing) are also included.

### SCOPE

**2** The survey covered urban and rural areas across all States and Territories of Australia. Persons aged 15 years and over who were usual residents of private and non-private dwellings were included. See *Labour Force, Australia* (Cat. no. 6203.0) for details of scope.

**3** Excluded were some 175,000 persons living in remote and sparsely settled parts of Australia. The exclusion of these persons will have only a minor impact on any aggregate estimates that are produced for individual States and Territories, with the exception of the Northern Territory where such persons account for over 20% of the population.

### COVERAGE

**4** In the population survey, coverage rules are applied which aim to ensure that each person is associated with only one dwelling, and hence has only one chance of selection. See *Labour Force, Australia* (Cat. no. 6203.0) for more details.

### METHODOLOGY

**5** The survey was conducted on a sub-sample of the monthly population survey sample. The monthly population survey (which is described in *Labour Force, Australia* (Cat. no. 6203.0)) comprises the monthly labour force and supplementary topics. The household sample was selected using multi-stage sampling techniques and included approximately 30,000 dwellings. Two randomly selected respondents per household from seven-eighths of the households selected in the Labour Force Survey were asked additional questions relating to involvement in sport. The information was collected by personal interview with approximately 45,600 persons being interviewed.

### RELIABILITY OF THE ESTIMATES

#### Sampling error

**6** The estimates provided in this publication are subject to two types of error.

**7** Sampling error occurs because a sample rather than the entire population is surveyed. One measure of the likely difference resulting from not including all dwellings in the survey is given by the standard error. Further information, together with details of the sampling error in respect of different levels of estimate, is given in the Technical Notes.



RELIABILITY OF THE ESTIMATES *continued*

## Non-sampling error

**8** Non-sampling error arises from inaccuracies in collecting, recording and processing data. These include:

- inability to obtain comprehensive data from all people included in the sample. The errors arise because of differences which exist between the characteristics of respondents and non-respondents;
- errors in reporting on the part of both the respondent and the interviewer. These errors may arise due to the inappropriate wording of questions, misunderstanding of what data are required, answers that were based on memory, and inability or unwillingness to provide accurate information; and
- errors arising during the processing of survey data. These processing errors may arise through mistakes in coding and data recording.

**9** Every effort is made to minimise these types of errors. In particular, the effects of reporting and processing errors described above were minimised by careful questionnaire design, intensive training and supervision of interviewers and extensive editing and quality control checking at all stages of data processing.

## DATA INTERPRETATION

**10** Participation in each type of sporting involvement was recorded only once, even if there were a number of different sports or associations in which a person was involved during the 12 month reference period. For example, a person on the committees of a tennis club and a netball club would be recorded only once as being involved as a committee member. Therefore, figures shown for any type of involvement represent counts of persons involved in that category.

**11** Persons with several types of involvement were counted only once against each type of involvement. For example, a person who coached and played sport would have been counted once in coaching and once in playing. As a person can participate in several types of involvement, the summation of involvements does not equate to the total number of persons involved in sport.

**12** Participation in a type of involvement was classified into two categories, paid or unpaid. Paid involvement was recorded where any payment had been received for a particular category. Where people were involved in more than one type of involvement, the nature of the payment status for all involvement in sport (as presented in tables 1 and 2) was determined by considering all categories combined.



## EXPLANATORY NOTES *continued*

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### RELATED PUBLICATIONS

**13** Other ABS publications with sport and recreation information include:

#### Participation

*How Australians Use Their Time, 1992* (Cat. no. 4152.0)

*Leisure Participation, Victoria, October 1996* (Cat. no. 4176.2)

*Participation in Sport and Physical Activities, Australia, 1995-96*

(Cat. no. 4177.0)

*Participation in Sporting and Physical Recreational Activities, Queensland,*

*October 1993* (Cat. no. 4110.3)

*Participation in Sporting and Physical Recreational Activities, South Australia,*

*1995* (Cat. no. 4175.4)

*Participation in Sporting and Physical Recreational Activities, Tasmania,*

*October 1994* (Cat. no. 4175.6)

*Population Survey Monitor, Australia, August 1997* (Cat. no. 4103.0)

*Sport and Recreation, Urban Northern Territory, 1991* (Cat. no. 4108.7)

#### Spectators

*Sports Attendance, Australia, March 1995* (Cat. no. 4174.0)

## APPENDIX Sports Included in Scope for this Survey

Aerobics(a)	Lacrosse
Archery	Life saving
Athletics	Martial arts(a)
Australian Rules football	Motor sports
Badminton	Netball
Baseball	Orienteering
Basketball	Polo
Billiards(a)	Polocrosse
BMX	Rodeo
Bocce	Roller sports(a)
Body building(a)	Rowing
Bowling (tenpin)	Rugby Union/League
Bowls (indoor/lawn/carpet)	Shooting(a)
Boxing	Skiing(a)
Callisthenics	Snooker(a)
Canoeing	Snow sports(a)
Cricket (including indoor)	Soccer (including indoor)
Croquet	Softball
Cycling(a)	Squash
Darts(a)	Surfriding(a)
Diving (tower/springboard)	Swimming(a)
Equestrian	Table tennis
Fishing(a)	Tennis
Golf	Touch football
Gymnastics	Triathlon
Handball	Trotting
Hockey (field/ice)	Volleyball
Horse racing	Water polo
Ice sports(a)	Weightlifting(a)
Karting	Wrestling(a)
Korfball	Yachting(a)

(a) Sport in scope only for competition involvement.

## TECHNICAL NOTES

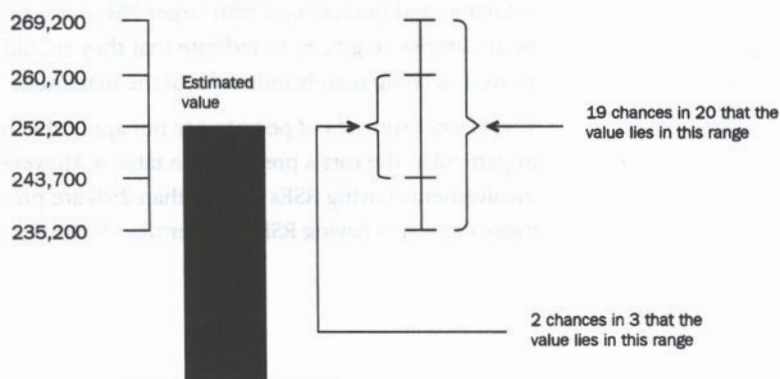
### SAMPLING VARIABILITY

Since the estimates in this publication are based on information obtained from occupants of a sample of dwellings, they are subject to sampling variability, that is, they may differ from those that would have been produced if all dwellings had been included in the survey. One measure of the likely difference is given by the standard error (SE), which indicates the extent to which an estimate might have varied by chance because only a sample of dwellings was included. There are about two chances in three (67%) that a sample estimate will vary by less than one SE from the number that would have been obtained if all dwellings had been included, and about 19 chances in 20 (95%) that the difference will be less than two SEs.

Another measure of the likely difference is the relative standard error (RSE), which is obtained by expressing the SE as a percentage of the estimate. The RSE is a useful measure in that it provides an immediate indication of the percentage of errors likely to have occurred due to sampling.

An example of the calculation and the use of SEs in relation to estimates of persons is as follows:

From table 2 an estimated 252,200 persons unemployed in the week prior to the survey week were involved in unpaid sporting activities during the 12 months ended March 1997. Referring to the table of SEs, an estimate of 252,200 has a SE of approximately 8,500 people. There are about two chances in three that the number that would have been produced if all dwellings had been included in the survey was between 243,700 and 260,700 (i.e. 252,200 plus or minus 8,500). There are about nineteen chances in twenty that the number lies between 235,200 and 269,200 (i.e. 252,200 plus or minus 17,000). This example is illustrated below.



Proportions and percentages formed from the ratio of two estimates are also subject to sampling errors. The size of the error depends on the accuracy of both the numerator and the denominator. A formula to approximate the RSE of a proportion is given below:

$$RSE(x/y) = \sqrt{[RSE(x)]^2 + [RSE(y)]^2}$$

## SAMPLING VARIABILITY *continued*

From table 1, of the 696,300 females aged 15 years and over resident in Western Australia, 193,300 (a participation rate of 27.8%) were involved in sport during the 12 months ended March 1997. The SE of 193,300 for the Western Australia is about 4,300, so the RSE is about  $4,300/193,300 \times 100 = 2.2\%$ . The RSE of 696,300 is approximately  $6,600/696,300 \times 100 = 0.9\%$ . Applying the above formula, the RSE of the participation rate 27.8% is  $\sqrt{(2.2)^2 + (0.9)^2}$  or 2%. This then gives the SE of the proportion (27.8%) of  $2/100 \times 27.8$  or 0.6%. Therefore, there are about two chances in three that the proportion of Western Australian females involved in sport was between 27.2% and 28.4% and approximately 19 chances in 20 that the proportion was in the range 26.6% to 29%.

Particular care should be taken when comparing figures. It is not correct to assume that an apparent difference between figures is actually significant. An approximate SE of the difference between two estimates (x-y) may be calculated by the following formula:

$$SE(x-y) = \sqrt{[SE(x)]^2 + [SE(y)]^2}$$

While this formula will only be exact for differences between separate and uncorrelated characteristics of sub-populations it is expected to provide a good approximation for all differences likely to be of interest in this publication.

As the SEs in the following table show, the size of the SE increases with the size of the estimate. However, the smaller the estimate the higher is the RSE. Thus, large estimates will be relatively more reliable than smaller estimates. Very small estimates are subject to such high SEs (relative to the size of the estimate) as to detract seriously from their value for most reasonable uses. In the tables in this publication, only estimates with RSEs of 25% or less and percentages based on such estimates are considered sufficiently reliable for most purposes. However, estimates and percentages with larger RSEs have been included and are preceded by an asterisk (e.g.\*2.8) to indicate that they should be treated with caution and viewed as being merely indicative of the magnitude involved.

The SEs of estimates of persons are not applicable to estimates of involvements, in particular, the totals presented in table 4. However, those estimates of involvements having RSEs greater than 25% are preceded by a single asterisk and those estimates having RSEs greater than 50% are preceded by a double asterisk.



1. 本公司及本公司之子公司均无对外担保行为。

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## GLOSSARY

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<b>Administrator</b>	A person defined as an administrator is someone who is involved with an association or government body.
<b>Birthplace</b>	Classified according to the <i>Australian Standard Classification of Countries for Social Statistics (ASCCSS)</i> (Cat. no. 1269.0). The group 'Main English speaking countries' comprises United Kingdom and Ireland, New Zealand, Canada, United States of America, and South Africa.
<b>Capital cities</b>	Are defined as the six State capital city Statistical Divisions. The Darwin Statistical Division and the Canberra Statistical Division, as delimited for purposes of the 1991 Census of Population and Housing, are excluded from this classification.
<b>Committee member</b>	A person defined as being a committee member is someone who is involved with the running of a sporting club.
<b>Employed</b>	For the definition of employed persons, see the publication <i>Labour Force, Australia</i> (Cat. no. 6203.0).
<b>Not in the labour force</b>	For the definition of persons not in the labour force, see the publication <i>Labour Force, Australia</i> (Cat. no. 6203.0).
<b>Other involvement</b>	Includes activities such as scoring, timekeeping and medical support.
<b>Paid and unpaid involvement</b>	Involvement in any one type of activity was classified as either paid or unpaid. Consequently, respondents could only be included in this category if they participated in more than one type of involvement and reported paid involvement and unpaid involvement for their different types of activity. For example, a person would fit into this classification if they were paid to referee and performed an administrative function voluntarily.
<b>Paid involvement</b>	People were classified as being paid for involvement in an individual type of activity if they received any payment at all for that involvement. Where more than one type of activity was undertaken, payment had to be received for each type of activity for all involvement to be classified as paid.
<b>Participation rate</b>	For any group, the number of people involved in sport, expressed as a percentage of the civilian population aged 15 and over in the same group.
<b>Some paid involvement</b>	This classification combines people who were paid for all types of involvement in which they participated with those who had paid and unpaid involvements.
<b>Sport</b>	Persons whose only involvement in sport were as spectators were excluded from the scope of the sporting questions of the survey. Sport was defined to generally include both social and competition involvement. However, participation in some sports was only recorded where it was undertaken competitively. The Appendix contains a list of the activities considered sport for this survey. Those regarded as sports only where competition was associated with them have been annotated.
<b>Unemployed</b>	For the definition of unemployed persons, see the publication <i>Labour Force, Australia</i> (Cat. no. 6203.0).



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